

**ASMS NEWS & VIEWS**

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ASMS News & Views  
Edited by Gavin Reid

**OBITUARY**

**1583–1589**

In Memoriam: Klaus Biemann (1926–2016)

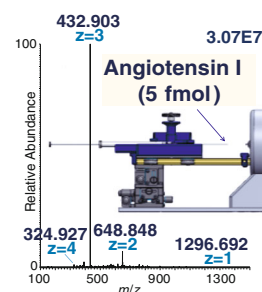
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**RESEARCH ARTICLES**

**1590–1596**

High Sensitivity Analysis of Nanoliter Volumes of Volatile and Nonvolatile Compounds using Matrix Assisted Ionization (MAI) Mass Spectrometry

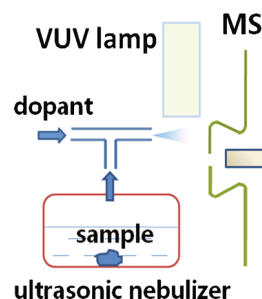
*K. Hoang, M. Pophristic, A.J. Horan, M.V. Johnston, and C.N. McEwen*



**1597–1605**

Extractive Atmospheric Pressure Photoionization (EAPPI) Mass Spectrometry: Rapid Analysis of Chemicals in Complex Matrices

*C. Liu, J. Yang, J. Wang, Y. Hu, W. Zhao, Z. Zhou, F. Qi, and Y. Pan*



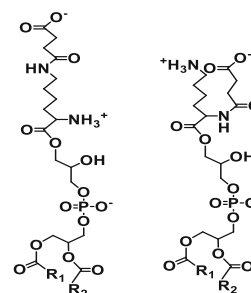
Instructions for authors for *The Journal of The American Society for Mass Spectrometry* can be found at [www.springer.com/13361](http://www.springer.com/13361)

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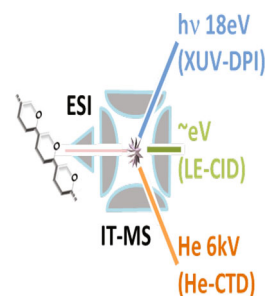
Journal of the American Society for Mass Spectrometry (ISSN 1044-0305) is published monthly by Springer Science & Business Media, 233 Spring St, 6th Fl., New York, NY. Periodicals postage is pending at New York, NY and additional mailing offices. POSTMASTER: Send address changes to *Journal of The American Society for Mass Spectrometry*, Springer, 233 Spring Street, New York, NY 10013, USA.

**1606–1613**

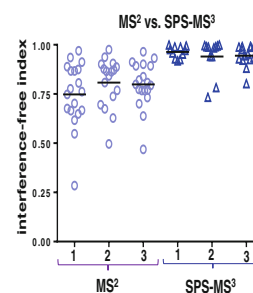
Characterization of N-Succinylation of L-Lysylphosphatidylglycerol in *Bacillus subtilis* Using Tandem Mass Spectrometry  
M. Atila, G. Katselis, P. Chumala, and Y. Luo

**1614–1619**

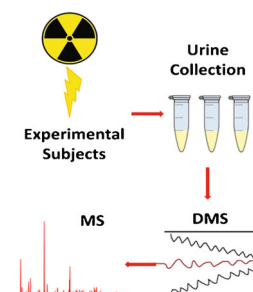
Charge Transfer Dissociation of Complex Oligosaccharides: Comparison with Collision-Induced Dissociation and Extreme Ultraviolet Dissociative Photoionization  
D. Ropartz, P. Li, M. Fanuel, A. Giuliani, H. Rogniaux, and G.P. Jackson

**1620–1625**

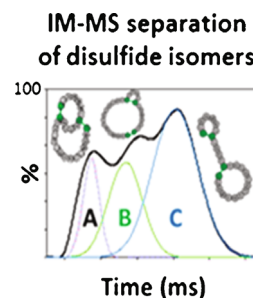
A Triple Knockout (TKO) Proteomics Standard for Diagnosing Ion Interference in Isobaric Labeling Experiments  
J.A. Paulo, J.D. O'Connell, and S.P. Gygi

**1626–1636**

Rapid and High-Throughput Detection and Quantitation of Radiation Biomarkers in Human and Nonhuman Primates by Differential Mobility Spectrometry-Mass Spectrometry  
Z. Chen, S.L. Coy, E.L. Pannkuk, E.C. Laiakis, A.B. Hall, A.J. Fornace Jr., and P. Vouros

**1637–1646**

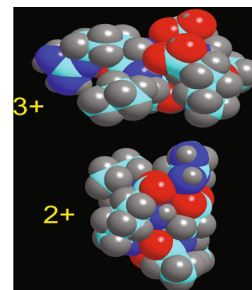
Ion Mobility-Mass Spectrometry as a Tool for the Structural Characterization of Peptides Bearing Intramolecular Disulfide Bond(s)  
P. Massonnet, J.R.N. Haler, G. Upert, M. Degueldre, D. Morsa, N. Smargiasso, G. Mourier, N. Gilles, L. Quinton, and E. De Pauw



## 1647–1660

Toward a Rational Design of Highly Folded Peptide Cation Conformations. 3D Gas-Phase Ion Structures and Ion Mobility Characterization

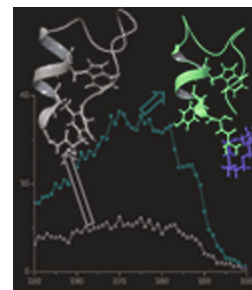
*R. Pepin, K.J. Laszlo, A. Marek, B. Peng, M.F. Bush, H. Lavanant, C. Afonso, and F. Tureček*



## 1661–1669

Structural Effects of Solvation by 18-Crown-6 on Gaseous Peptides and TrpCage after Electrospray Ionization

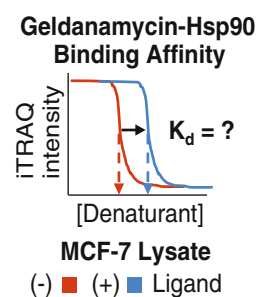
*J.G. Bonner, N.G. Hendricks, and R.R. Julian*



## 1670–1676

Thermodynamic Analysis of the Geldanamycin–Hsp90 Interaction in a Whole Cell Lysate Using a Mass Spectrometry-Based Proteomics Approach

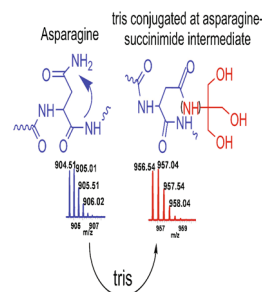
*Y. Xu, M.A.G. Wallace, and M.C. Fitzgerald*



## 1677–1685

Mass Spectrometry Based Mechanistic Insights into Formation of Tris Conjugates: Implications on Protein Biopharmaceutics

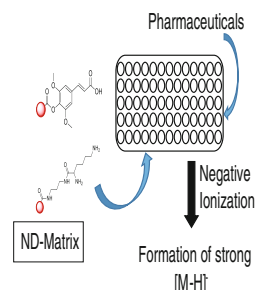
*P.G. Kadij, P.K. Sankaran, D.V. Palanivelu, L. Adhikary, A. Khedkar, and A. Chatterjee*



## 1686–1693

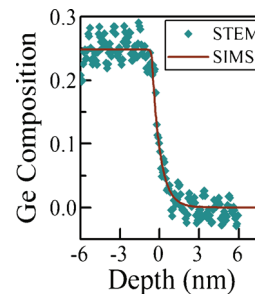
The Development of Novel Nanodiamond Based MALDI Matrices for the Analysis of Small Organic Pharmaceuticals

*J.M. Chitanda, H. Zhang, E. Pahl, R.W. Purves, and A. El-Aneed*



1694–1702

Si<sub>1-x</sub>Ge<sub>x</sub>/Si Interface Profiles Measured to Sub-Nanometer Precision Using uleSIMS Energy Sequencing  
*R.J.H. Morris, T.P.A. Hase, A.M. Sanchez, and G. Rowlands*



1703–1714

Optimization of the Ion Source-Mass Spectrometry Parameters in Non-Steroidal Anti-Inflammatory and Analgesic Pharmaceuticals Analysis by a Design of Experiments Approach  
*P. Paíga, L.M.S. Silva, and C. Delerue-Matos*

